LOUIS A. WILLIAMS, JR. & ASSOCIATES
March, 1989

TABLE 32

REMAINING UNDESIRED LIMITS

Station	1 mV/m Contour (km)	Undesired dBu	Station Separation (km)	Proposed ERP Limit (kW)	Proposed F(50,10) Undesired Contour (km)	Margin (km)
WCNE	20.84	100	30.45	0.445	1.49	8.12
WLMH	6.92	54	29.00	0.276	14.41	7.67
WVXR/CP	14.64	40	78.23	0.078	28.22	35.37
WFPL	49.97	40	158.4	0.176	43.32	65.11
WHSS	12.27	54	28.56	0.094	11.37	4.92
WDPS/WDPR	11.18	54	62.41	0.084	11.14	40.09
WDPR/CP(DA)	25.84*	54	62.83	0.085	10.88	26.11
WVXM/CP	22.68	54	81.70	0.475	18.68	40.34

* Maximum ERP assumed for DA

TABLE 33

REMAINING 1 mV/m LIMITS

Station	Undesired dBu	Undesired Contour (km)	Station Separation (km)	Proposed ERP Limit (kW)	Proposed F(50,50) 1 mV/m Contour (km)	Margin (km)
WCNE	100	2.06	30.45	0.445	12.26	16.13
WLMH	54	9.95	29.00	0.276	10.37	8.68
WVXR/CP	40	61.07	78.23	0.078	8.51	8.65
WHSS	54	18.18	28.56	0.094	7.97	2.41
WDPS/WDPR	54	15.71	62.41	0.084	7.79	38.91
WDPR/CP	54	39.79	62.83	0.085	7.58	15.46
WVXM/CP	54	33.97	81.70	0.475	12.65	35.08
WLHS	100	0.71	12.07	0.097	6.48	4.88

TABLE 34

Louis A. Williams, Jr. and Associates
Cincinnati, Ohio

March, 1989

Terrain Averaging Program

Job Title: WSYX/APP
HAAT (m): 298

Latitude: 40-01-02
Longitude: 83-01-11

	Bearing (Deg-true)	3.2-16.1 km Avg. Terrain Elev. (m)	Height Above Average Terrain (m)
	0.0	260.8	287.0
	45.0	262.0	285.8
	90.0	252.6	295.2
	135.0	231.3	316.5
	180.0	213.6	334.2
	225.0	255.5	292.3
	270.0	264.9	282.9
	315.0	257.6	290.2
*	209.4	240.5	307.3
*	214.4	244.1	303.7
*	219.4	250.8	297.0
*	224.4	255.2	292.6
*	229.4	257.9	289.9
*	234.4	259.9	287.9
*	239.4	260.4	287.4
*	244.4	260.5	287.3
*	249.4	260.9	286.9
*	254.4	266.0	281.8
*	259.4	270.9	276.9
		-----	-----
	Average:	249.8	298.0

* Radial not included in average

TABLE 35

Louis A. Williams, Jr. and Associates
Cincinnati, Ohio

March, 1989

Terrain Averaging Program

Job Title: Proposed Reading toward Ch. 6 TV Latitude: 39-13-23
HAAT (m): 72 Longitude: 84-25-57

	Bearing (Deg-true)	3-16 km Avg. Terrain Elev. (m)	Height Above Average Terrain (m)
	0.0	197.0	90.9
	45.0	257.4	30.5
	90.0	219.7	68.2
	135.0	225.5	62.4
	180.0	185.3	102.6
	225.0	174.4	113.5
	270.0	244.5	43.4
	315.0	223.1	64.8
*	33.3	250.2	37.7
*	42.7	257.7	30.2
*	53.3	244.1	43.8
*	64.0	225.3	62.6
*	73.6	217.9	70.0
*	81.5	224.4	63.5
*	266.1	245.6	42.3
*	270.1	244.5	43.4
*	275.3	244.3	43.6
*	281.6	245.2	42.7
*	289.0	247.0	40.9
*	297.0	230.2	57.7
*	305.0	233.1	54.8
*	312.5	226.8	61.1
	Average:	215.9	72.0

* Radial not included in average

LOUIS A. WILLIAMS, JR. & ASSOCIATES
MARCH 1989

TABLE 36

WSYX/APP/PROPOSED READING CONTOURS

Bearing from WSYX/APP (Degrees)	WSYX/APP Effective Height (Meters)	WSYX/APP F(50,50) 47 dBu (km)	Bearing from Proposed to WSYX/APP 47 dBu (Degrees)	Distance from Proposed to WSYX/APP 47 dBu (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,10) 67.4 dBu (km)	Margin (km)
N219.4E	297.0	103.3	N81.5E	56.8	63.5	0.610	8.5	48.3
224.4	292.6	102.9	73.6	51.7	70.0	0.475	8.3	43.4
229.4	289.9	102.7	64.0	48.4	62.6	0.308	7.0	41.4
234.4	287.9	102.5	53.3	47.4	43.8	0.199	5.3	42.1
239.4	287.4	102.5	42.7	48.6	30.2	0.141	4.0	44.6
244.4	287.3	102.5	33.3	52.0	37.7	0.109	4.2	47.8

TABLE 37

Louis A. Williams, Jr. and Associates
Cincinnati, Ohio

March, 1989

Terrain Averaging Program

Job Title: WRTV
HAAT (m): 302

Latitude: 39-53-59
Longitude: 86-12-02

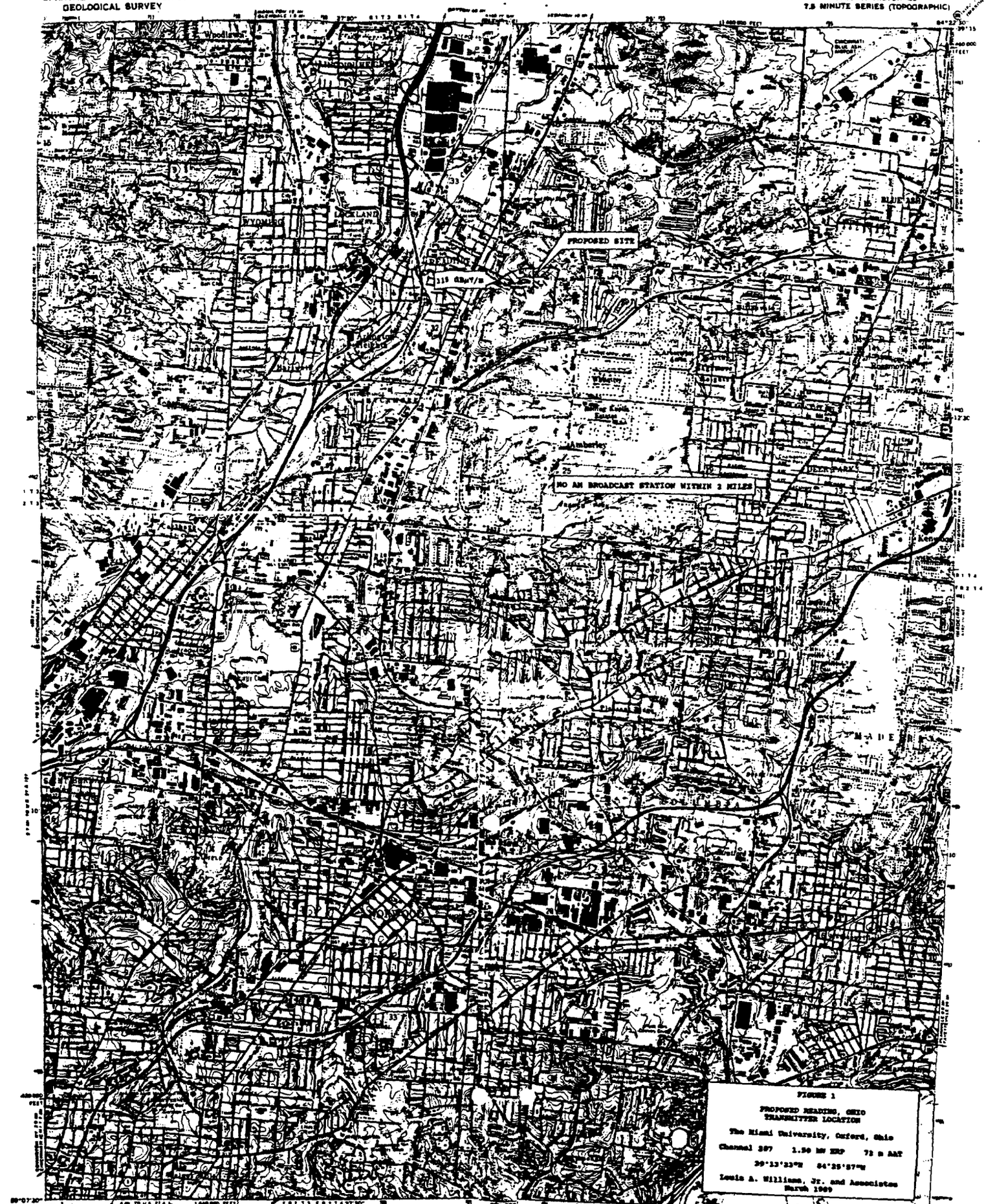
	Bearing (Deg-true)	3.2-16.1 km Avg. Terrain Elev. (m)	Height Above Average Terrain (m)
	0.0	273.6	281.1
	45.0	253.0	301.7
	90.0	243.5	311.2
	135.0	238.5	316.2
	180.0	222.8	331.9
	225.0	248.8	305.9
	270.0	268.9	285.8
	315.0	272.2	282.5
*	90.8	243.3	311.4
*	95.8	242.4	312.3
*	100.8	241.0	313.7
*	105.8	237.7	317.0
*	110.8	239.8	314.9
*	115.8	240.0	314.7
*	120.8	238.9	315.8
*	125.8	239.6	315.1
*	130.8	240.0	314.7
*	135.8	238.3	316.4
*	140.8	235.9	318.8
	Average:	252.7	302.0

* Radial not included in average

TABLE 38

WRTV/PROPOSED READING CONTOURS

Bearing from WRTV (Degrees)	WRTV Effective Height (Meters)	WRTV F(50,50) 47 dBu (km)	Bearing from Proposed to WRTV 47 dBu (Degrees)	Distance from Proposed to WRTV 47 dBu (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,10) 67.4 dBu (km)	Margin (km)
N105.8E	317.0	104.9	N312.5E	68.5	61.1	0.127	5.6	62.9
110.8	314.9	104.8	305.0	65.6	54.8	0.166	5.7	59.9
115.8	314.7	104.7	297.0	64.6	57.7	0.241	6.4	58.2
120.8	315.8	104.8	289.0	65.6	40.9	0.348	5.8	59.8
125.8	315.1	104.8	281.6	68.6	42.7	0.489	6.5	62.1
130.8	314.7	104.7	275.3	73.4	43.6	0.654	7.0	66.4
135.8	316.4	104.9	270.1	79.4	43.4	0.830	7.5	71.9
140.8	318.8	105.0	266.1	86.5	42.3	0.998	7.7	78.8


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
CINCINNATI EAST QUADRANGLE
OHIO-HAMILTON CO
7.5 MINUTE SERIES (TOPOGRAPHIC)
PROPOSED SITE
NO AM BROADCAST STATION WITHIN 3 MILES
Amberley
WYOMING
FIGURE 1
PROPOSED READING, OHIO
TRANSMITTER LOCATION
The Miami University, Oxford, Ohio
Channel 207 1.50 kW ERP 72 m AAT
39°13'23"N 84°25'57"W
Louis A. Williams, Jr. and Associates
March 1969

1240-004

MIAMI UNIVERSITY

Office of the President
Roudebush Hall
Oxford, Ohio 45056

March 2, 1990

Federal Communications Commission
1919 M Street, N.W.
Washington, D. C. 20554

Dear Sir or Madam:

The attached information constitutes an amendment to File #BPED 890530 MA, an application for an FM radio station in Reading, Ohio.

Thank you for your assistance.

Sincerely,

Paul G. Pearson
President

js

Attachment

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MAR - 9 1990

Federal Communications Commission
Office of the Secretary

CLARIFICATION OF
DIRECTIONAL ANTENNA PATTERN DATA IN
THE MIAMI UNIVERSITY, OXFORD, OHIO
APPLICATION FOR CONSTRUCTION PERMIT
FOR A NEW NCE FM BROADCAST STATION
IN READING, OHIO
FILE NO. BPED-890530MA

This statement provides a clarification of the directional antenna pattern data for WOBO and WNKU used in the above referenced application. This clarification is offered in response to paragraph 40 of MM Docket No. 87-121 released February 22, 1989. The following information does not change any of the engineering conclusions in the above referenced application.

The antenna pattern data for WOBO used in the engineering exhibit supporting the above referenced Reading Application is taken from the WOBO azimuth pattern plot in the Jampro report dated September 28, 1987 and submitted to the FCC as an attachment to WOBO's Application for License BLED-880202KB. The WOBO azimuth pattern plot referenced in the WOBO Construction Permit BPED-860613MD differs at some azimuths from the WOBO azimuth pattern given in the WOBO license application but in the azimuths critical to the subject Reading Application the two patterns are essentially the same. This correspondence is shown in Tables 1 and 2 below.

The data given below in Tables 1 and 2 covers the critical WOBO azimuths developed in the subject Reading Application in Tables 12A and 12B. Table 12A is the more critical of the two and the comparison in Table 1 below shows there is no significant difference at the critical azimuths between the pattern referenced in the WOBO construction permit and the pattern given in the WOBO license application. The critical distances to WOBO contours given in the subject Reading Application can therefore be taken as based upon construction permit data.

TABLE 1
Azimuths Referenced in
Reading Application Table 12A

WOBO Azimuth	WOBO CP APP Figure 3 Relative Field	WOBO LIC APP Attach 1, p. 3 Relative Field
300°	0.435	0.43
301	0.44	0.435
302	0.443	0.44
303	0.448	0.445
304	0.45	0.45
305	0.454	0.455

TABLE 2
Azimuths Referenced in
Reading Application Table 12B

WOBO Azimuth	WOBO CP APP Table 1 Relative Field	WOBO LIC APP Attach 1, p. 5 Relative Field
260°	0.48	0.50
270	0.39	0.40
280	0.33	0.34
290	0.38	0.39
300	0.44	0.43
310	0.47	0.48
320	0.54	0.53
330	0.58	0.57
340	0.56	0.56
350	0.53	0.49

The antenna pattern data for WNKU used in the engineering exhibit supporting the subject Reading Application is taken from the WNKU azimuth pattern plot in the Electronics Research, Inc. report dated October 30, 1984 and is believed to be the latest WNKU license data. This WNKU antenna pattern data is in fact essentially identical to the antenna pattern data referenced in the WNKU Construction Permit BMPED-841119IG.

Very slight differences exist between the tabular data given in the application for the WNKU construction permit and the tabular data used in the subject Reading Application. These differences are noted below in Table 3 and are believed due to two different people reading the same polar plot:

TABLE 3
WNKU RELATIVE FIELD

WNKU Azimuth	WNKU CP (Fig. 3E Table)	Reading App. (Table 18)
350°	0.25	0.25
0	0.20	0.21
10	0.175	0.18
20	0.175	0.18
30	0.195	0.21
40	0.245	0.25
50	0.305	0.32
60	0.380	0.39

Note that in all cases in Table 3 the subject Reading Application uses the same or slightly more relative field for the WNKU pattern, so the small differences would actually increase the contour margin. The distances to WNKU contours given in the Reading Application can therefore be taken as based upon construction permit data.

Louis A. Williams Jr. Date: February 8, 1990

Louis A. Williams, Jr., P.E.
2092 Arrowood Place
Cincinnati, OH 45231

(513) 851-4964

CERTIFICATE OF SERVICE

I, Stephanie A. Thompson, a secretary in the law offices of Haley, Bader & Potts, hereby certify that I have on this date, August 24, 1992, sent copies of the foregoing "PETITION FOR LEAVE TO AMEND" by first-class, United States mail, postage prepaid, to the following:

*Honorable John M. Frysiak
Administrative Law Judge
Federal Communications Commission
2000 L Street, N.W., Room 223
Washington, DC 20554

*Robert A. Zauner, Esq.
Hearing Branch
Mass Media Bureau
2025 M Street, N.W., Room 7212
Washington, DC 20554

Stanley S. Neustadt, Esq.
Cohn & Marks
1333 New Hampshire Ave., N.W.
Suite 600
Washington, DC 20036
(Counsel for Miami University)

*Hand Delivered

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THEODORE D. KRAMER
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JAMES M. TOWARNICKY
KATHLEEN VICTORY
MELODIE A. VIRTUE

LARRY D. SUMMERVILLE
BROADCAST ANALYST

ANDREW G. HALEY
(1904-1966)

August 28, 1992

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

RECEIVED
AUG 28 1992
FEDERAL COMMUNICATIONS COMMISSION
OFFICE OF THE SECRETARY

Re: MM Docket 92-98
File No. BPED-910412MC
Reading, Ohio

Dear Ms. Searcy:

Transmitted herewith, on behalf of Southwestern Ohio Seniors' Services, Inc. are the original and six copies of an Errata to the amendment to above-reference application filed on August 24, 1992.

If there are any questions concerning this matter, kindly communicate directly with this office.

Very truly yours,

Dawn M. Sciarrino

Dawn M. Sciarrino

DMS:dms

Enclosures (7)

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In re Applications of	)	MM Docket 92-98
	)	
THE PRESIDENT AND BOARD OF TRUSTEES OF THE MIAMI UNIVERSITY	)	File No. BPED-8990530MA
	)	
SOUTHWESTERN OHIO SENIORS' SERVICES, INC.	)	File No. BPED-910412MC
	)	
For Construction Permit for a new Non-commercial FM Station on Channel 207A at Reading, Ohio	)	

To: The Honorable John M. Frysiak
Administrative Law Judge

Errata to Amendment

Southwestern Ohio Seniors' Services, Inc. ("SOSSI"), by its attorneys, hereby submits the attached errata to its amendment filed on August 24, 1992. In support thereof the following is stated:

1. The amendment filed on August 24, 1992, seeks to substitute the engineering proposal previously submitted by The President and Board of Trustees of The Miami University ("University") for the proposal by SOSSI. Part of the amendment, a corrective amendment filed by the University on December 20, 1991, was inadvertently omitted from SOSSI's amendment filed on August 24, 1992. Pursuant to a settle-

ment agreement between the parties, submitted concurrently therewith, SOSSI agreed to amend its application to include all of the University's engineering proposal in return for granting University an option and right of first refusal.

2. The material contained in the errata was inadvertently omitted and does not affect the proposed amendment's compliance with the test of Erwin O'Connor Broadcasting, Co., 22 FCC 2d 140 (Rev.Bd. 1970).

WHEREFORE, the premises considered, Southwestern Ohio Seniors' Services, Inc. respectfully requests that the Presiding Judge accept the errata to the amendment filed August 24, 1992 and that he accept that amendment.

Respectfully submitted,

Southwestern Ohio Seniors' Services, Inc.

By: Dawn M. Sciarrino
Lee W. Shubert
Dawn M. Sciarrino

Its Attorneys

HALEY, BADER & POTTS
Suite 600
2000 M Street, N.W.
Washington, D.C.
20036
202/331-0606

August 28, 1992

1240.004 D. 4.
2

CORRECTIVE AMENDMENT FOR
APPLICATION FOR CONSTRUCTION PERMIT
FILE NO. BPED-890530MA
FOR A NEW NCE FM STATION IN READING, OHIO
BY THE MIAMI UNIVERSITY, OXFORD, OHIO

ITEMS CHANGED BY THIS AMENDMENT:

1. ERP from 1.50 to 1.00 kW for both horizontal and vertical
2. Antenna Azimuthal Composite Antenna Pattern to Figure 1
3. Antenna Tabular Pattern Data to Table 1
4. Antenna Maximum to Minimum Ratio from 13.32 dB to 14.95 dB
5. 1 mV/m Contour Distances to

0°	7.4 km
45	5.1
90	11.6
135	11.9
180	15.4
225	11.2
270	9.5
315	7.3

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DEC 21 1990
Federal Communications Commission
Office of the Secretary

6. 1 mV/m Contour Area from 453.8 sq. km. to 350.9 sq. km.

DISCUSSION:

This corrective amendment for the application by The Miami University in Oxford, Ohio for a new Noncommercial Educational FM Broadcast Station in Reading, Ohio under File No. BPED-890530MA provides a minor modification to the proposed Reading antenna pattern and peak effective radiated power to eliminate the possibility of overlaps when the application is evaluated using the Commission's computer-generated contour overlap study. The amendment also adds a slight margin between the proposed Reading contours and the relevant co- and adjacent station contours to allow for differences in computational methods.

The calculations on which this amendment is based derive from the May 1, 1984 30-second point elevation terrain data base produced by the National Geophysical Data Center (NGDC). Since the May 1, 1984 issue corrected several errors in the data base, we

request that the Commission use the May 1, 1984 issue or later if the Commission bases their evaluation on NGDC 30-second data.

Recent discussions with the Commission's engineering staff revealed the potential for some minor disagreements between the Commission's computer-generated contour overlap study and the engineering data prepared by us for the Reading application. These disagreements are believed resolved in this corrective amendment. We have introduced slight modifications in the proposed Reading azimuthal composite antenna pattern and reduced the peak effective radiated power from the originally proposed 1.50 kW to the presently proposed 1.00 kW. In addition, we have restructured the presentation of the required tabular azimuthal antenna pattern data to provide ten critical pattern azimuths (including maxima and minima) in a common table with data specified at ten degree points. We believe these changes bring the resulting Reading contours into compliance with current FCC Rules when evaluated using the Commission's computer-generated contour overlap program and the current 30-second data base. As a result of these changes, the predicted distances to the 1 mV/m contour and the 1 mV/m contour area change as noted above.

The modified proposed pattern relative field is shown graphically in Figure 1. The corresponding tabular data is given in Table 1. In Table 1, in addition to entries provided at ten degree intervals, critical pattern azimuths (including maxima and minima) are included and marked with asterisks. It should be noted that the relative fields specified at 50, 90, 180, 200, and 230 degrees are also critical, but since they are part of the normal ten degree data they are not identified with asterisks. A total of ten critical azimuths are specified, not counting the points at 50, 90, 180, 200, and 230 degrees. Should the Commission desire, the data in Table 1 can be provided at finer intervals up to 0.5 degree.

As noted in the application for construction permit, the critical contours are the WLHS 1 mV/m contour, the WOBO 1 mV/m

contour, the WNKU 1 and 10 mV/m contours, and the WFPL 0.1 mV/m contour. These contours are presented herein in detail.

Table 2 shows that the proposed Reading 100 mV/m contour does not overlap the WLHS 1 mV/m contour. Table 3 shows that the proposed Reading 100 mV/m contour does not overlap the WOBO 1 mV/m contour. Table 4 shows that the proposed Reading 10 mV/m contour does not overlap the WNKU 1 mV/m contour and that the proposed Reading 1 mV/m contour does not overlap the WNKU 10 mV/m contour. Table 5 shows that the proposed Reading 1 mV/m contour does not overlap the WFPL 0.1 mV/m contour. The file number used for each table is given in the title for that particular table.

By incorporating this amended pattern into the Reading application for construction permit, we believe the application by The Miami University meets all the current requirements for antenna directionality, lack of interference to other stations, and lack of interference to the proposed station when evaluated using the Commission's computer-generated contour overlap program. The application continues to demonstrate that the proposed Reading station meets all the current requirements for lack of interference to TV Channel 6 and lack of environmental impact, and complies with current guidelines for human exposure to radiofrequency radiation, since all powers in all pertinent directions are less than contained in the original application.

The terrain data used to make the calculations in Tables 2 through 5 is given in Tables 6 through 10. This data is based on the height of the radiation center above mean sea level (RCAMSL). Radial average elevations are calculated using the May 1, 1984 30-second point elevation terrain data base produced by the National Geophysical Data Center (NGDC). As noted at the beginning of this amendment, it is important that earlier issues of the 30-second NGDC data base not be used to calculate the contour distances.

CERTIFICATION

Louis A. Williams, Jr. certifies that he is a consulting engineer doing business since 1970 as Louis A. Williams, Jr. and Associates with offices at 2092 Arrowood Place, Cincinnati, Ohio 45231. He holds a degree of Bachelor of Science in Humanities and Engineering from the Massachusetts Institute of Technology. He is a licensed Professional Engineer in Ohio (#33727) and Kentucky (#7374) and holds a general Radiotelephone license (PG-19-19343).

The foregoing report entitled "Corrective Amendment for Application for Construction Permit File no. BPED-890530MA for a New NCE FM Station in Reading, Ohio by The Miami University, Oxford, Ohio" was prepared by him personally or under his supervision and is true and accurate to the best of his belief and knowledge.

Louis A. Williams, Jr., P.E.

Date: December 18, 1990

Original stamped in purple.

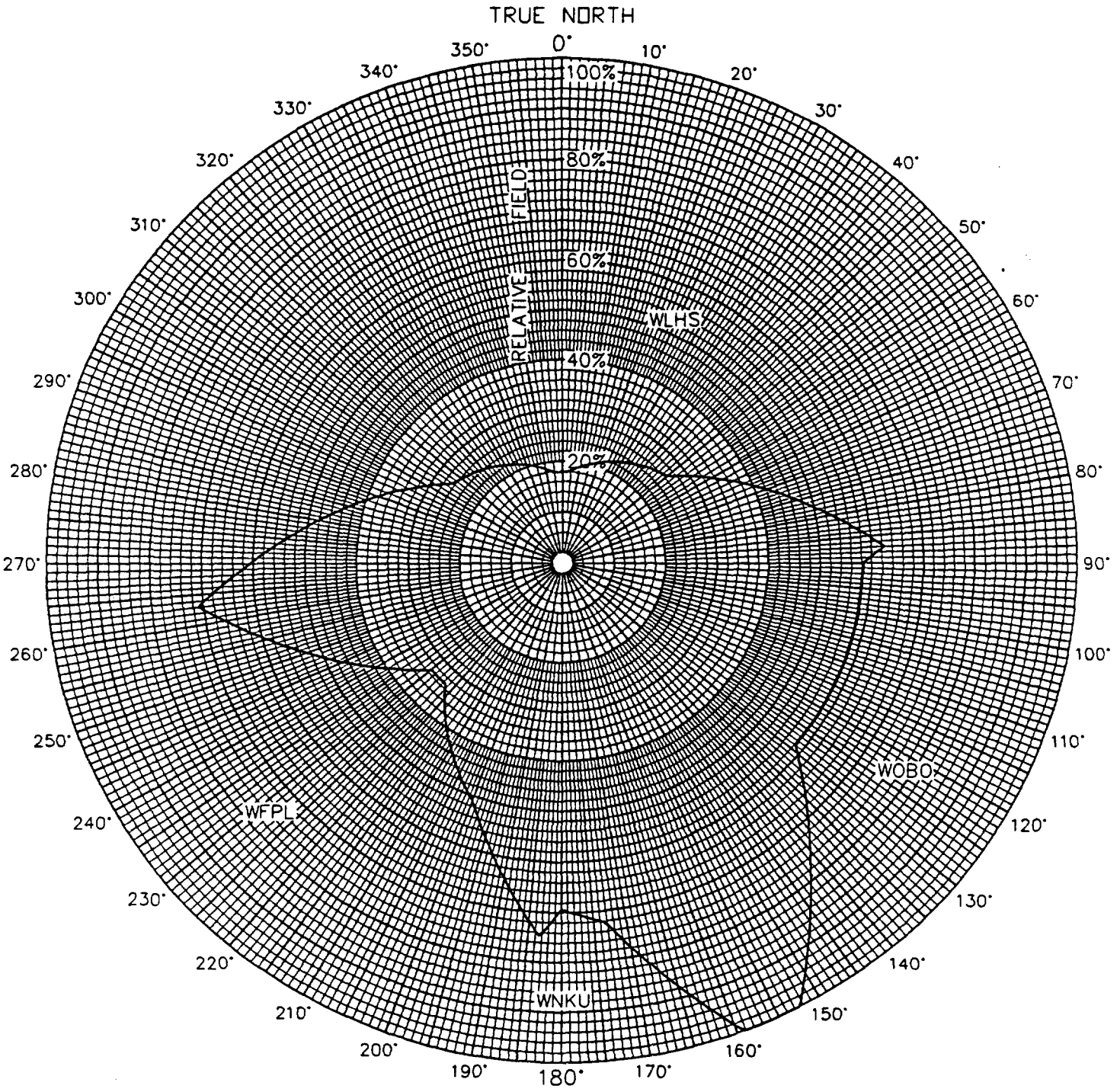

FIGURE 1

MODIFIED PROPOSED READING AZIMUTH PATTERN

Channel 207

Louis A. Williams, Jr. and Associates

December 1990

TABLE 1
MODIFIED PROPOSED READING COMPOSITE ANTENNA PATTERN
WITH A TOTAL OF TEN EXTRA AZIMUTHS
INCLUDING MAXIMA AND MINIMA

	Azimuth (deg.)	Relative Field	Free Space Field (mV/m at 1 mile)	ERP (dBk)
	0	0.1789	25	-14.95
*	3	0.1789	25	-14.95
	10	0.1919	26	-14.34
	20	0.2106	29	-13.53
	30	0.2292	32	-12.79
	40	0.2479	34	-12.12
	50	0.2665	37	-11.49
	60	0.3355	46	-9.49
	70	0.4224	58	-7.49
	80	0.5317	73	-5.49
*	87	0.6247	86	-4.09
	90	0.5831	80	-4.69
	100	0.5831	80	-4.69
	110	0.5831	80	-4.69
	120	0.5831	80	-4.69
*	129	0.5831	80	-4.69
	130	0.5967	82	-4.49
	140	0.7512	103	-2.49
	150	0.9457	130	-0.49
*	156	1.0000	138	0.00
	160	0.9817	135	-0.16
	170	0.7798	107	-2.16
*	173.4	0.7211	99	-2.84
	180	0.6928	95	-3.19
*	183.3	0.7483	103	-2.52
	190	0.6419	88	-3.85
	200	0.5099	70	-5.85
	210	0.4324	60	-7.28
	220	0.3549	49	-9.00
*	223	0.3317	46	-9.59
	230	0.3317	46	-9.59
	240	0.4176	57	-7.59
	250	0.5257	72	-5.59
	260	0.6618	91	-3.59
*	263.1	0.7107	98	-2.97
	270	0.6062	83	-4.35
	280	0.4815	66	-6.35
	290	0.3825	53	-8.35
	300	0.3038	42	-10.35
*	306	0.2646	36	-11.55
	310	0.2576	35	-11.78
	320	0.2401	33	-12.39
	330	0.2226	31	-13.05
	340	0.2051	28	-13.76
	350	0.1876	26	-14.53
*	355	0.1789	25	-14.95

* indicates a critical azimuth not at a ten degree point

LOUIS A. WILLIAMS, JR. & ASSOCIATES
DECEMBER 1990

TABLE 2

WLHS VS. PROPOSED READING CONTOURS
FOR WLHS FILE BLED820521AW

Bearing from WLHS (Degrees)	WLHS Effective Height (Meters)	WLHS F(50,50) 1 mV/m (km)	Bearing from Proposed to WLHS 1 mV/m (Degrees)	Distance from Proposed to WLHS 1 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,10) 100 mV/m (km)	Margin (km)
N202.0E	118.7	11.2	N 76.8E	1.4	71.3	0.244	1.1	0.3
202.5	119.5	11.2	74.4	1.3	71.0	0.219	1.0	0.3
203.0	120.1	11.2	71.7	1.3	67.2	0.193	1.0	0.3
203.5	120.8	11.3	72.1	1.1	67.7	0.197	1.0	0.1
204.0	121.4	11.3	68.5	1.1	63.9	0.167	0.9	0.2
204.5	122.1	11.3	64.4	1.0	62.8	0.138	0.8	0.2
205.0	122.7	11.4	63.5	0.8	61.8	0.132	0.8	0.0
205.5	123.4	11.4	57.9	0.8	53.3	0.102	0.7	0.1
206.0	124.2	11.4	51.2	0.7	39.3	0.075	0.6	0.1
206.5	125.0	11.5	46.7	0.6	32.0	0.068	0.6	0.0
207.0	126.0	11.5	37.4	0.6	33.5	0.059	0.5	0.1
207.5	127.1	11.5	27.2	0.6	41.4	0.050	0.5	0.1
208.0	128.5	11.6	15.3	0.5	71.5	0.041	0.4	0.1
208.2	129.0	11.6	10.4	0.5	78.8	0.037	0.4	0.1
208.4	129.6	11.7	1.0	0.4	88.6	0.032	0.4	0.0
208.6	130.3	11.7	356.3	0.4	96.6	0.032	0.4	0.0
208.8	130.9	11.7	351.9	0.5	95.3	0.034	0.4	0.1
209.0	131.6	11.7	348.0	0.5	90.6	0.037	0.4	0.1
209.5	133.3	11.8	331.3	0.5	72.8	0.049	0.5	0.0
210.0	135.0	11.9	316.6	0.6	65.7	0.061	0.5	0.1
210.5	136.7	12.0	305.4	0.6	54.9	0.072	0.6	0.0
211.0	138.4	12.0	304.6	0.7	55.2	0.075	0.6	0.1
211.5	139.9	12.1	297.5	0.8	58.1	0.104	0.7	0.1
212.0	141.3	12.2	291.9	1.0	46.7	0.134	0.8	0.2
212.5	142.5	12.2	293.1	1.1	50.0	0.127	0.8	0.3
213.0	143.6	12.3	289.1	1.2	41.3	0.153	0.9	0.3

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TABLE 3

WOBO VS. PROPOSED READING CONTOURS
FOR WOBO FILE BPED-860613MD

Bearing from WOBO (Degrees)	WOBO Effective Height (Meters)	WOBO ERP (kW)	WOBO F(50,50) 1 mV/m (km)	Bearing from Proposed to WOBO 1 mV/m (Degrees)	Distance from Proposed to WOBO 1 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,10) 100 mV/m (km)	Margin (km)
N299.0E	183.4	2.87	31.5	N153.7E	3.0	95.8	1.00	1.6	1.4
300.0	186.7	2.93	31.9	148.0	2.4	80.9	0.816	1.6	0.8
301.0	189.4	3.00	32.3	138.0	1.8	65.8	0.515	1.6	0.2
301.2	189.8	3.01	32.4	135.2	1.6	62.6	0.452	1.5	0.1
301.4	190.1	3.02	32.4	131.4	1.6	62.0	0.380	1.4	0.2
301.6	190.4	3.03	32.5	127.8	1.5	59.1	0.340	1.3	0.2
301.7	190.5	3.03	32.5	125.7	1.5	60.1	0.340	1.3	0.2
301.8	190.6	3.03	32.5	123.4	1.5	62.8	0.340	1.3	0.2
302.0	190.7	3.04	32.5	119.1	1.5	69.6	0.340	1.3	0.2
302.2	190.8	3.06	32.6	114.3	1.4	69.2	0.340	1.3	0.1
302.4	190.9	3.07	32.6	109.7	1.4	67.3	0.340	1.3	0.1
302.6	190.9	3.08	32.7	104.2	1.4	63.6	0.340	1.3	0.1
302.8	190.8	3.10	32.7	99.8	1.4	68.1	0.340	1.3	0.1
303.0	190.7	3.11	32.7	95.6	1.4	72.8	0.340	1.3	0.1
303.2	190.6	3.12	32.7	91.8	1.5	68.5	0.340	1.3	0.2
303.4	190.4	3.12	32.7	88.2	1.6	68.1	0.369	1.3	0.3
303.5	190.3	3.13	32.7	86.5	1.6	66.8	0.381	1.4	0.2
303.6	190.2	3.13	32.7	84.9	1.6	65.6	0.354	1.3	0.3
303.8	190.0	3.13	32.7	81.9	1.7	63.9	0.309	1.2	0.5
304.0	189.8	3.14	32.7	79.2	1.8	66.4	0.273	1.2	0.6
305.0	188.3	3.19	32.7	68.8	2.2	64.1	0.169	0.9	1.3
306.0	186.2	3.24	32.7	62.2	2.7	60.3	0.125	0.8	1.9

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TABLE 4

WNKU VS. PROPOSED READING CONTOURS
FOR WNKU FILE BMPED-841119IG

Bearing from WNKU (Degrees)	WNKU Effective Height (Meters)	WNKU ERP (kW)	WNKU F(50,50) 1 mV/m (km)	Bearing from Proposed to WNKU 1 mV/m (Degrees)	Distance from Proposed to WNKU 1 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,10) 10 mV/m (km)	Margin (km)
N345E	115.0	0.941	19.7	N260.1E	8.1	35.9	0.440	2.8	5.3
350	114.4	0.750	18.5	250.1	6.5	43.1	0.278	2.8	3.7
355	107.5	0.635	17.1	232.2	5.5	108.0	0.122	3.5	2.0
0	98.9	0.529	15.5	210.3	5.7	94.7	0.185	3.7	2.0
5	92.2	0.389	13.8	194.1	6.9	92.9	0.341	4.3	2.6
10	93.3	0.389	13.9	183.9	6.8	88.4	0.546	4.7	2.1
15	97.8	0.389	14.2	173.2	6.8	102.9	0.525	5.0	1.8
20	102.5	0.389	14.6	162.4	7.0	105.4	0.863	5.8	1.2
25	116.1	0.389	15.6	149.3	7.3	82.9	0.866	5.1	2.2
30	130.4	0.529	18.1	127.5	7.8	59.0	0.340	3.4	4.4

Bearing from WNKU (Degrees)	WNKU Effective Height (Meters)	WNKU ERP (kW)	WNKU F(50,10) 10 mV/m (km)	Bearing from Proposed to WNKU 10 mV/m (Degrees)	Distance from Proposed to WNKU 10 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,50) 1 mV/m (km)	Margin (km)
N20E	102.5	0.389	4.6	N184.6E	16.2	85.5	0.528	14.3	1.9
25	116.1	0.389	4.9	182.9	16.0	92.4	0.549	15.1	0.9
27.5	126.1	0.389	5.1	181.9	15.9	96.5	0.524	15.2	0.7
30	130.4	0.529	5.7	180.1	15.5	102.6	0.482	15.4	0.1
35	130.6	0.635	5.9	178.1	15.6	100.1	0.491	15.3	0.3
40	131.7	0.750	6.2	175.9	15.7	100.1	0.505	15.4	0.3
45	127.4	0.941	6.5	173.8	15.9	102.9	0.518	15.8	0.1
50	115.3	1.229	6.6	172.3	16.3	102.4	0.547	16.0	0.3
55	101.3	1.470	6.5	171.6	16.9	102.0	0.565	16.1	0.8
60	88.8	1.825	6.4	171.2	17.4	101.6	0.575	16.1	1.3

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TABLE 5

WFPL VS. PROPOSED READING CONTOURS
FOR WFPL FILE BLED7838

Bearing from WFPL (Degrees)	WFPL Effective Height (Meters)	WFPL F(50,10) 0.1 mV/m (km)	Bearing from Proposed to WFPL 0.1 mV/m (Degrees)	Distance from Proposed to WFPL 0.1 mV/m (km)	Proposed Effective Height (Meters)	Proposed ERP (kW)	Proposed F(50,50) 1 mV/m (km)	Margin (km)
N44.6E	102.5	146.8	N246.3E	12.1	59.5	0.233	10.0	2.1
44.8	102.6	146.8	244.0	11.9	71.3	0.210	10.5	1.4
45.0	102.7	146.9	241.7	11.7	84.8	0.189	11.1	0.6
45.2	102.8	146.9	239.3	11.6	93.1	0.169	11.3	0.3
45.4	102.8	146.9	236.8	11.5	96.5	0.151	11.2	0.3
45.6	102.9	146.9	234.3	11.4	101.6	0.134	11.2	0.2
45.8	102.9	146.9	231.7	11.3	109.1	0.119	11.2	0.1
46.0	102.9	146.9	229.1	11.3	114.5	0.110	11.2	0.1
46.2	102.9	146.9	226.5	11.3	115.9	0.110	11.3	0.0
46.4	102.9	146.9	223.9	11.3	112.1	0.110	11.1	0.2
46.6	102.9	146.9	221.3	11.3	108.2	0.119	11.2	0.1
46.8	102.8	146.9	218.7	11.4	103.9	0.133	11.3	0.1
47.0	102.8	146.9	216.2	11.5	98.3	0.148	11.2	0.3
47.2	102.7	146.9	213.7	11.6	95.9	0.163	11.4	0.2
47.4	102.6	146.8	211.4	11.8	94.9	0.178	11.6	0.2
47.6	102.4	146.8	209.1	12.0	94.7	0.193	11.8	0.2
47.8	102.2	146.8	206.8	12.2	95.4	0.209	12.0	0.2
48.0	102.0	146.7	204.8	12.5	95.3	0.224	12.2	0.3
48.2	101.7	146.7	202.7	12.7	96.5	0.239	12.5	0.2
48.4	101.4	146.6	200.8	13.0	98.2	0.254	12.8	0.2
48.6	101.1	146.6	198.9	13.3	98.4	0.274	13.1	0.2
48.8	100.7	146.5	197.2	13.6	97.4	0.296	13.2	0.4
49.0	100.3	146.4	195.7	14.0	95.7	0.317	13.3	0.7
49.2	99.9	146.4	194.0	14.3	92.7	0.343	13.4	0.9
49.4	99.4	146.3	192.6	14.7	88.0	0.366	13.3	1.4
49.6	98.9	146.2	191.3	15.0	83.8	0.388	13.1	1.9